

# 13. Spatiotemporal Databases

- Extreme Point Data Models
- Parametric Extreme Point Data Models
- Geometric Transformation Data Models
- Queries

# Spatiotemporal Databases

**Shasha Hu**



## **Spatiotemporal Databases:**

*Spatio-Temporal Databases* Rita de Caluwe, Guy de Tré, 2004-08-12 Spatio Temporal Databases explores recent trends in flexible querying and reasoning about time and space related information in databases It shows how flexible querying enhances standard querying expressiveness in many different ways with the aim of facilitating extraction of relevant data and information Flexible spatial and temporal reasoning denotes qualitative reasoning about dynamic changes in the spatial domain characterized by imprecision or uncertainty or both Many of the contributions focus on GIS while some others are more general or focus on related application fields presenting theoretical viewpoints and techniques that are inspiring or can be adapted for GIS The first part bundles the contributions on advances at the theoretical level also discussing examples and opening further perspectives The second part presents contributions on well developed applications The authors explain how to handle imprecision and uncertainty demonstrating how advanced techniques can help to solve diverse problems related to GIS

**Spatio-Temporal Databases** Manolis Koubarakis, 2003-08-04 This book is an introduction and source book for practitioners graduate students and researchers interested in the state of the art and practice in spatiotemporal databases It collects the most important and representative research carried out in the project CHOROCHRONOS and presents it in a unified fashion CHOROCHRONOS was a Training and Mobility Research Network funded by the European Commission with the objective to study the design implementation and application of spatiotemporal database management systems This book would never have been possible if it was not for the devoted work of many people First and foremost we would like to thank the authors of the nine chapters of this book for their hard work We would also like to acknowledge the help of Christiane Bernard our officer from the European Commission who saw the project to its conclusion working as hard as we did to make it a thorough success The constructive comments and feedback of our reviewer Colette Roland University of Paris 1 are also very much appreciated Last but not least we would like to thank all the students and postdoctoral fellows who were trained during CHOROCHRONOS We hope the time they spent at CHOROCHRONOS node institutions was rewarding and lots of fun March 2003 Timos Sellis Manolis Koubarakis Andrew Frank Vienna Stephane Grumbach Ralf Hartmut Guting Christian Jensen Nikos Lorentzos Yannis Manolopoulos Enrico Nardelli Barbara Pernici Babis Theodoulidis Nectaria Tryfona Hans Jörg Schek Michel Scholl Table of Contents 1 Introduction **Spatio-Temporal Database Management** Michael H.

Böhlen, Christian S. Jensen, Michel O. Scholl, 2003-06-26 This book constitutes the refereed proceedings of the International Workshop on Spatio Temporal Database Management Systems STDBM 99 held in Edinburgh UK in September 1999 as a satellite event of VLDB 99 The 13 revised full papers presented were carefully selected from 30 papers submitted The book offers topical sections on understanding and manipulating spatiotemporal data integration exchange and visualization query processing index evaluation and constraints and dependencies **Advances in Spatial and Temporal Databases**

Christian S. Jensen, 2001-07-02 This book constitutes the refereed proceedings of the 7th International Conference on Spatial

and Temporal Databases SSTD 2001 held in Redondo Beach CA USA in July 2001 The 25 revised full papers and two industrial papers presented were carefully reviewed and selected from a total of 70 submissions The book offers topical sections on modeling and querying moving object query processing query processing architectures and cost estimation processing advanced queries formal aspects data representation industrial session data warehousing and mining and indexing *Spatiotemporal Data Analytics and Modeling* John A,Satheesh Abimannan,El-Sayed M. El-Alfy,Yue-Shan Chang,2024-04-15 With the growing advances in technology and transformation to digital services the world is becoming more connected and more complex Huge heterogeneous data are generated at rapid speed from various types of sensors Augmented with artificial intelligence and machine learning and internet of things latent relations and new insights can be captured helping in optimizing plans and resource utilization improving infrastructure and enhancing quality of services A spatial data management system is a way to take care of data that has something to do with space This could include data such as maps satellite images and GPS data A temporal data management system is a system designed to manage data that has a temporal component This could include data such as weather data financial data and social media data Some advanced techniques used in spatial and temporal data management systems include geospatial indexing for efficient querying and retrieval of location based data time series analysis for understanding and predicting temporal patterns in datasets like weather or financial trends machine learning algorithms for uncovering hidden patterns and correlations in large and complex datasets and integration with Internet of Things IoT technologies for real time data collection and analysis These techniques augmented with artificial intelligence enable the extraction of latent relations and insights thereby optimizing plans improving infrastructure and enhancing the quality of services This book provides essential technical knowledge best practices and case studies on the state of the art techniques of artificial intelligence and machine learning for spatiotemporal data analysis and modeling The book is composed of several chapters written by experts in their fields and focusing on several applications including recommendation systems big data analytics supply chains and e commerce energy consumption and demand forecasting and traffic and environmental monitoring It can be used as academic reference at graduate level or by professionals in science and engineering related fields such as data science and engineering big data analytics and mining artificial intelligence machine learning and deep learning cloud computing and internet of things

**Spatial Databases** Yannis Manolopoulos,Apostolos N. Papadopoulos,Michael Gr Vassilakopoulos,2005-01-01 Introduces the reader to the world of spatial databases and related subtopics The broad range of topics includes spatial data modelling indexing of spatial and spatiotemporal objects data mining and knowledge discovery in spatial and spatiotemporal management issues and query processing for moving objects **Advances in Spatial and Temporal Databases** ,2003

**Information Systems And Technologies For Network Society: Proceedings Of The Ipsj International Symposium** Yahiko Kambayashi,Yoshifumi Masunaga,Makoto Takizawa,Yuichiro Anzai,1997-09-09 This volume contains

technical papers and panel position papers selected from the proceedings of the International Symposium on Information Systems and Technologies for Network Society held together with the IPSJ information processing society of Japan National Convention in September 1997 Papers were submitted from all over the world especially from Japan Korea and China Since these countries are believed to form one of the major computer manufacturing centers in the world a panel on Computer Science Education for the 21st Century was set up A special session on the Japanese project on Software Engineering invited representative researchers from the project which is supported by the Ministry of Education Japan

*Advances in Spatial Databases*, 1999

**Spatio-Temporal Databases** Marcos R. Vieira, Vassilis J. Tsotras, 2013-10-15 This brief presents several new query processing techniques called complex motion pattern queries specifically designed for very large spatio temporal databases of moving objects The brief begins with the definition of flexible pattern queries which are powerful because of the integration of variables and motion patterns This is followed by a summary of the expressive power of patterns and flexibility of pattern queries The brief then present the Spatio Temporal Pattern System STPS and density based pattern queries STPS databases contain millions of records with information about mobile phone calls and are designed around cellular towers and places of interest Density based pattern queries capture the aggregate behavior of trajectories as groups Several evaluation algorithms are presented for finding groups of trajectories that move together in space and time i e within a predefined distance to each other Finally the brief describes a generic framework called DivDB for diversifying query results Two new evaluation methods as well as several existing ones are described and tested in the proposed DivDB framework The efficiency and effectiveness of all the proposed complex motion pattern queries are demonstrated through an extensive experimental evaluation using real and synthetic spatio temporal databases This clear evaluation of new query processing techniques makes Spatio Temporal Database a valuable resource for professionals and researchers studying databases data mining and pattern recognition

Tenth International Workshop on Database and Expert Systems Applications Antonio Cammelli, A. Min Tjoa, Roland R. Wagner, 1999 Proceedings of the September 1999 workshop on defining requirements for future systems in the areas of database and artificial technologies The 151 contributions discuss innovative applications and new architectures mobility in databases and distributed systems similarity search web based inform

*Handbook of Research on Innovations in Database Technologies and Applications* Viviana E. Ferragine, Jorge H. Doorn, Laura C. Rivero, 2009-01-01 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher

**Advances in Databases and Information Systems**, 2001

*Database and Expert Systems Applications*, 2004

**Proceedings of the Trends in Electronics Conference**, 2001

**Modeling the Interactions Between Land Use and Transportation Investments Using Spatiotemporal Analysis Tools**, 2003

**IEEE Region 10 International Conference on Electrical and Electronic Technology**, 2001 This CD ROM contains the conference proceedings from the 10th IEEE Region 10 International Conference on Electrical and Electronic Technology

Design and Management of Multimedia Information Systems Syed Mahbubur Rahman, Mahbubur Rahman Syed, 2001  
Multimedia technology has the potential to transform end user computing from interactive text and graphics models into something more compatible with the digital and electronic world of the 21st century. This work aims to help technology professionals gain an understanding and perspective on areas related to multimedia computing and communication while addressing the major issues and challenges in the design and management of multimedia information systems. Topics covered include the development of multimedia systems and applications, use of multimedia standards, temporal issues, legal issues, media content management, and multimedia document retrieval issues. *Conference Proceedings*, 2001. *IDEAS '98, International Database Engineering and Applications Symposium*. Barry Eaglestone, Bipin C. Desai, Jianhua Shao, 1998. This volume covers topics including database engineering, data management, distribution, and interoperability, OODMS and RDMS, data warehouses, and scientific databases, electronic commerce and the web, CSCW and distance learning, spatial data, and handwriting and query optimization.

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